

### DECLARATION AND POWER OF ATTORNEY

I, Alan R. Stockner, declare that I am a citizen of the United States of America, residing at Metamora, Illinois, and that I believe I am one of the original, first, and joint inventors together with Norval J. Weimken, Ye Tian, Scott F. Shafer, Mark S. Cavanagh and Gene Slinkard of the subject matter which is claimed and for which a patent is sought on the invention entitled:

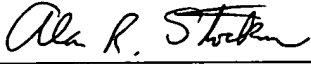
THREE WAY VALVE AND ELECTRO-HYDRAULIC ACTUATOR USING SAME  
the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to be material to patentability as defined in §1.56. I further declare that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns.

We hereby appoint Michael Huber, Reg. No. 44,783, telephone (309) 675-4923, J. Wesley Blumenshine, Patent Office Reg. No. 32,399, telephone (309) 675-5537, J. W. Keen, Patent Office Reg. No. 28,432, telephone (309) 675-5753, Dennis C. Skarvan, Patent Office Reg. No. 35,360, telephone (309) 675-6060, Michael B. McNeil, Patent Office Reg. No. 35,949, telephone (812) 333-5355, our attorneys and/or agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected with this application. Please address all correspondence to: Michael B. McNeil, Liell & McNeil, P.O. Box 2417, 511 S. Madison Street, Bloomington, Indiana, 47402.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

	9 OCT 2003
ALAN R. STOCKNER	Date
15 WOODFORD WAY	
METAMORA, IL 61548-9220	

DECLARATION AND POWER OF ATTORNEY

I, Norval J. Wiemken, declare that I am a citizen of the United States of America, residing at Dwight, Illinois, and that I believe I am one of the original, first, and joint inventors together with Alan R. Stockner, Ye Tian, Scott F. Shafer, Mark S. Cavanagh and Gene Slinkard of the subject matter which is claimed and for which a patent is sought on the invention entitled:

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Norval J. Wiemken      9-16-03  
NORVAL J. WIEMKEN      Date  
123 E. SOUTH STREET  
DWIGHT, IL 60420-1328

DECLARATION AND POWER OF ATTORNEY

I, Scott F. Shafer, declare that I am a citizen of the United States of America, residing at Morton, Illinois, and that I believe I am one of the original, first, and joint inventors together with Norval J. Weimken, Ye Tian, Alan R. Stockner, Mark S. Cavanagh and Gene Slinkard of the subject matter which is claimed and for which a patent is sought on the invention entitled:

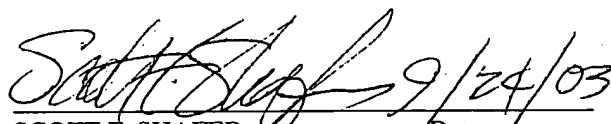
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SCOTT F. SHAFER  
248 N. KANSAS AVE.  
MORTON, IL 61550-2218

Date

DECLARATION AND POWER OF ATTORNEY

I, Gene Slinkard, declare that I am a citizen of the United States of America, residing at Pontiac, Illinois, and that I believe I am one of the original, first, and joint inventors together with Norval J. Weimken, Ye Tian, Scott F. Shafer, Mark S. Cavanagh and Alan R. Stockner of the subject matter which is claimed and for which a patent is sought on the invention entitled:

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 9/29/2003  
\_\_\_\_\_  
GENE R. SLINKARD Date  
714 CIMMERON DR.  
PONTIAC, IL 61764

**DECLARATION AND POWER OF ATTORNEY**

I, Mark S. Cavanagh, declare that I am a citizen of the United States of America, residing at Bloomington, Illinois, and that I believe I am one of the original, first, and joint inventors together with Norval J. Weimken, Ye Tian, Scott F. Shafer, Alan R. Stockner and Gene Slinkard of the subject matter which is claimed and for which a patent is sought on the invention entitled:

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 10-14-03  
\_\_\_\_\_  
MARK S. CAVANAGH Date  
1909 REDBUD LANE  
BLOOMINGTON, IL 61704-2773

DECLARATION AND POWER OF ATTORNEY

I, Ye Tian, declare that I am a citizen of the Peoples Republic of China, residing at Bloomington, Illinois, and that I believe I am one of the original, first, and joint inventors together with Norval J. Weimken, Alan R. Stockner, Scott F. Shafer, Mark S. Cavanagh and Gene Slinkard of the subject matter which is claimed and for which a patent is sought on the invention entitled:


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We hereby appoint Michael Huber, Reg. No. 44,783, telephone (309) 675-4923, J. Wesley Blumenshine, Patent Office Reg. No. 32,399, telephone (309) 675-5537, J. W. Keen, Patent Office Reg. No. 28,432, telephone (309) 675-5753, Dennis C. Skarvan, Patent Office Reg. No. 35,360, telephone (309) 675-6060, Michael B. McNeil, Patent Office Reg. No. 35,949, telephone (812) 333-5355, our attorneys and/or agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected with this application. Please address all correspondence to: Michael B. McNeil, Liell & McNeil, P.O. Box 2417, 511 S. Madison Street, Bloomington, Indiana, 47402.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

 12/2/03  
YE TIAN Date  
25 SWAN LAKE  
BLOOMINGTON, IL 61704-1277

ASSIGNMENT

WHEREAS, Alan R. Stockner, residing at Metamora, Illinois, hereinafter referred to as ASSIGNOR has invented together with Norval J. Weimken, Ye Tian, Scott F. Shafer, Mark S. Cavanagh and Gene R. Slinkard a new and useful

THREE WAY VALVE AND ELECTRO-HYDRAULIC ACTUATOR USING SAME

for which ASSIGNOR is about to file an international application and/or make application for Letters Patent in the United States of America, such invention being described and identified by said application having an attached International Application Request and/or an attached Declaration and Power of Attorney executed by ASSIGNOR on

10-9-03

; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt of which is hereby acknowledged by ASSIGNOR;

1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue or extension thereof, together with the right to file applications and obtain patents for said invention in any foreign country, and covenant that ASSIGNOR has the full right to do so.

2. At the request and expense of ASSIGNEE, ASSIGNOR agrees to communicate to ASSIGNEE any facts known respecting said invention, to execute all papers necessary to file any application on said invention necessary or desirable to aid ASSIGNEE in obtaining and enforcing proper protection for said invention in the United States of America and any foreign country.

3. ASSIGNOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar Inc.

4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

Alan R. Stockner

9 Oct. 2003

ALAN R. STOCKNER

Date

IN WITNESS OF the execution hereof by ALAN R. STOCKNER we have hereunto set our hands.

Angie M. Hess

Date

Denis E. [Signature]

Witness (2)

Date

Address:

Address:

1292 N Woodland Knolls Ln

1924 W. Teton

Metamora IL 61548

PEORIA IL 61614

ASSIGNMENT

WHEREAS, Mark S. Cavanagh, residing at Bloomington, Illinois, hereinafter referred to as ASSIGNOR has invented together with Norval J. Weimken, Ye Tian, Scott F. Shafer, Alan R. Stockner and Gene R. Slinkard a new and useful

THREE WAY VALVE AND ELECTRO-HYDRAULIC ACTUATOR USING SAME

for which ASSIGNOR is about to file an international application and/or make application for Letters Patent in the United States of America, such invention being described and identified by said application having an attached International Application Request and/or an attached Declaration and Power of Attorney executed by ASSIGNOR on

10-14-03; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt of which is hereby acknowledged by ASSIGNOR:

1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue or extension thereof, together with the right to file applications and obtain patents for said invention in any foreign country, and covenant that ASSIGNOR has the full right to do so.
2. At the request and expense of ASSIGNEE, ASSIGNOR agrees to communicate to ASSIGNEE any facts known respecting said invention, to execute all papers necessary to file any application on said invention necessary or desirable to aid ASSIGNEE in obtaining and enforcing proper protection for said invention in the United States of America and any foreign country.
3. ASSIGNOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar Inc.
4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

Mark S. Cavanagh 10-14-03  
MARK S. CAVANAGH Date

IN WITNESS OF the execution hereof by MARK S. CAVANAGH we have hereunto set our hands.

Norval J. Weimken 10/14/03 [Signature] 10/14/03  
Witness (1) Date Witness (2) Date  
Address: 1431 COUNTY ROAD Address: 40 Lakeview Dr.  
1700 E Fairbury, IL 61739  
ROANOKE, IL 61561



ASSIGNMENT

WHEREAS, Norval J. Wiemken, residing at Dwight, Illinois, hereinafter referred to ASSIGNOR has invented together with Alan R. Stockner, Ye Tian, Scott F. Shafer, Mark S. Cavanagh and Gene R. Slinkard a new and useful

THREE WAY VALVE AND ELECTRO-HYDRAULIC ACTUATOR USING SAME

for which ASSIGNOR is about to file an international application and/or make application for Letters Patent in the United States of America, such invention being described and identified by said application having an attached International Application Request and/or an attached Declaration and Power of Attorney executed by ASSIGNOR on

9-16-03

; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt of which is hereby acknowledged by ASSIGNOR;

1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue or extension thereof, together with the right to file applications and obtain patents for said invention in any foreign country, and covenant that ASSIGNOR has the full right to do so.

2. At the request and expense of ASSIGNEE, ASSIGNOR agrees to communicate to ASSIGNEE any facts known respecting said invention, to execute all papers necessary to file any application on said invention necessary or desirable to aid ASSIGNEE in obtaining and enforcing proper protection for said invention in the United States of America and any foreign country.

3. ASSIGNOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar Inc.

4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

Norval J. Wiemken  
NORVAL J. WIEMKEN

9-16-03

Date

IN WITNESS OF the execution hereof by NORVAL J. WIEMKEN we have hereunto set our hands.

Teffrey DePayva 9/16/03  
Witness (1) Date

Address: 55 Harmony Lane  
Romeoville IL 60446

Norman J. Kraft 9/16/03  
Witness (2) Date

Address: 1431 Country Road 170DE  
ROANOKE, IL 61561

ASSIGNMENT

WHEREAS, Scott F. Shafer, residing at Morton, Illinois, hereinafter referred to as ASSIGNOR has invented together with Norval J. Weimken, Ye Tian, Alan R. Stockner, Mark S. Cavanagh and Gene R. Slinkard a new and useful

THREE WAY VALVE AND ELECTRO-HYDRAULIC ACTUATOR USING SAME

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09-24-03; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt of which is hereby acknowledged by ASSIGNOR;

1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue or extension thereof, together with the right to file applications and obtain patents for said invention in any foreign country, and covenant that ASSIGNOR has the full right to do so.

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IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

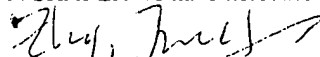
  
SCOTT F. SHAFER

09/24/03  
Date

IN WITNESS OF the execution hereof by SCOTT F. SHAFER we have hereunto set our hands.



9/24/03



Witness (1)

Date

Witness (2)

Date

Address: 1123 N. W. Highway Rd

Address: 12225 Woodcrest Dr Apt 310

Mt. Morris IL 61559

Dundlap IL 61525

ASSIGNMENT

WHEREAS, Gene R. Slinkard, residing at Pontiac, Illinois, hereinafter referred to as ASSIGNOR has invented together with Norval J. Weimken, Ye Tian, Scott F. Shafer, Mark S. Cavanagh and Alan R. Stockner a new and useful

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9-29-03; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

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IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

Gene R. Slinkard 9/29/2003  
GENE R. SLINKARD Date

IN WITNESS OF the execution hereof by GENE R. SLINKARD we have hereunto set our hands.

<u>William H. H.</u>	<u>9/29/03</u>	<u>William H. H.</u>	<u>9/29/03</u>
Witness (1)	Date	Witness (2)	Date
Address: <u>1707 44th Park RD 2nd Fl</u>		Address: <u>1217 RIVIERA DR</u>	
<u>Pontiac IL 61764</u>		<u>BLOOMINGTON, IL 61701</u>	